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| APPLICATION NO.                                       | FILING DATE       | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |  |
|---|-------------------|----------------------|---------------------|------------------|--|
| 10/561,180  | 12/16/2005        | Masahiko Seki        | 0020-5450PUS1       | 1969             |  |
| 2292 7590 02/28/2008<br>BIRCH STEWART KOLASCH & BIRCH |                   |                      |                     | EXAMINER         |  |
| PO BOX 747  | CH 3/A 22040 0747 | MORRIS, PATRICIA L   |                     |                  |  |
| FALLS CHUR  | CH, VA 22040-0747 |                      | ART UNIT            | PAPER NUMBER     |  |
|   |                   |                      | 1625                |                  |  |
|   |                   |                      |                     |                  |  |
|   |                   |                      | NOTIFICATION DATE   | DELIVERY MODE    |  |
|   |                   |                      | 02/28/2008          | ELECTRONIC       |  |

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

mailroom@bskb.com

|  | Application No.  | Applicant(s)              |             |  |  |  |
|--|--|---------------------------|-------------|--|--|--|
| Office Action Comments   | 10/561,180   | SEKI ET AL.               |             |  |  |  |
| Office Action Summary  | Examiner   | Art Unit                  |             |  |  |  |
|  | Patricia L. Morris   | 1625                      |             |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply   | ears on the cover sheet with the c   | orrespondence ac          | ldress      |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |                           |             |  |  |  |
| Status   |  |                           |             |  |  |  |
| 1) Responsive to communication(s) filed on <u>21 De</u>  | ecember 2007   |                           |             |  |  |  |
|  | action is non-final.   |                           |             |  |  |  |
| 3) Since this application is in condition for allowan  |  | secution as to the        | a marite is |  |  |  |
| closed in accordance with the practice under <i>E</i>  |  |                           | o monto io  |  |  |  |
| ologica in absordance with the practice ander E  | x parte gadyle, 1000 C.B. 11, 40   | 0.0.210.                  |             |  |  |  |
| Disposition of Claims  |  |                           |             |  |  |  |
| 4)⊠ Claim(s) <u>11 and 27-59</u> is/are pending in the ap  | plication.   |                           |             |  |  |  |
| 4a) Of the above claim(s) is/are withdraw  | vn from consideration.   |                           |             |  |  |  |
| 5) Claim(s) is/are allowed.  |  |                           |             |  |  |  |
| 6)⊠ Claim(s) <u>11 and 27-59</u> is/are rejected.  |  |                           |             |  |  |  |
| 7) Claim(s) is/are objected to.  |  |                           |             |  |  |  |
| 8) Claim(s) are subject to restriction and/or  | election requirement.  |                           |             |  |  |  |
|  | ·  |                           |             |  |  |  |
| Application Papers   |  |                           |             |  |  |  |
| 9)☐ The specification is objected to by the Examiner.  |  |                           |             |  |  |  |
|  | 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.                          |                           |             |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  |  |                           |             |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).   |  |                           |             |  |  |  |
| 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |                           |             |  |  |  |
| Priority under 35 U.S.C. § 119   |  |                           |             |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of</li> </ul>  | s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)). | on No ed in this National | Stage       |  |  |  |
| Attachment(s)  1) \[ \sum \text{Notice of References Cited (PTO-892)} \]   | 4) ☐ Interview Summary   | (PTO-413)                 |             |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  | Paper No(s)/Mail Da  | ite                       |             |  |  |  |
| 3) Information Disclosure Statement(s) (PTO/SB/08)   | 5) Notice of Informal P  | atent Application         |             |  |  |  |
| Paper No(s)/Mail Date  | 6)   |                           |             |  |  |  |

### **DETAILED ACTION**

Claims 11 and 27-59 are under consideration in this application.

## Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claim 11 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

Again, the specification fails to recite how any unknown reactive derivatives are produced in process (C). Applicants merely allege that any one skilled in the art would know what applicants intend. Applicants refer to page 29, lines 6-7 of the specification. This is certainly not persuasive because no where on page 29 or anywhere in the specification are any of alleged unknown reactive derivatives produced. What are the reactive derivatives?

Claim 11 is rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

Again, the expressions ester residue, reactive derivative and leaving groups are employed with considerable abandon in claim 11 with no indication given as to what the esters, reactive derivatives or leaving groups really are. Applicants merely assert that specification supports the

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expressions. This is not persuasive because the public is entitled to know what unknown ester residues, reactive derivatives and leaving groups are employed in the process.

One should be able, from a reading of the claims, determine what that claim does or does not encompass.

Why? Because that claim precludes others from making, using, or selling that compound for 20 years. Therefore, one must know what process being claimed.

Again, the specification lacks direction or guidance for placing all of the alleged products in the possession of the public without inviting more than routine experimentation. Applicants are referred to <u>In re Fouche</u>, 169 USPQ 429 CCPA 1971, MPEP 716.02(b).

There are many factors to be considered when determining whether there is sufficient evidence to support a determination that a disclosure does not satisfy the enablement requirement and whether any necessary experimentation is undue. These factors include 1) the breadth of the claims, 2) the nature of the invention, 3) the state of the prior art, 4) the level of one of ordinary skill, 5) the level of predictability in the art, 6) the amount of direction provided by the inventor, 7) the existence of working examples, and 8) the quantity of experimentation needed to make or use the invention based on the content of the disclosure. In re Wands, 858 F.2d 731, 737, 8 USPQ2d 1400, 1404 (Fed. Cir. 1988).

# The nature of the invention

The nature of the invention is the preparation of compounds.

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State of the Prior Art

Esters, reactive groups and leaving groups can have very different properties. Esters and

reactive derivatives tend to convert from less stable to more stable forms. No method exists to

predict what group will work with any significant certainty in the process.

The amount of direction or guidance and the presence or absence of working examples

Again, the specification fails to describe any ester residues, reactive derivatives or leaving

groups.

The written description is considered inadequate here in the specification. Conception of the

intended groups should not be the role of the reader. Applicants should, in return for a 20 year

monopoly, be disclosing to the public that which they know as an actual demonstrated fact. The

disclosure should not be merely an invitation to experiment. This is a 35 USC 112, first

paragraph. If you (the public) find that it works, I claim it, is not a proper basis of patentability.

In re Kirk, 153 USPQ 48, at page 53.

The breadth of the claims

The breadth of the claims are drawn to the production of the instant compounds in

addition to all unknown reactive derivatives, etc.

The quantity of experimentation needed

The quantity of experimentation needed would be undue when faced with the lack of

direction and guidance present in the instant specification in regards to the compounds and their

unknown other forms being claimed.

In terms of the 8 Wands factors, undue experimentation would be required to make or

use the invention based on the content of the disclosure due to the breadth of the claims, the level

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of unpredictability in the art of the invention, and the poor amount of direction provided by applicants. Taking the above factors into consideration, it is not seen where the instant other forms are enabled by the instant application.

Genentech Inc v. Novo Nordisk A/S (CAFC) 42 USPQ2d 1001, states that "a patent is not a hunting license. It is not a reward for search, but compensation for its successful conclusion" and [p]atent protection is granted in return for an enabling disclosure of an invention, not for vague intimations of general ideas that may or may not be workable".

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 11 and 27-59 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Again, the expressions leaving group, ester residue and reactive derivatives are not defined in claim 11. What is the derivative or residue?

Contra to applicants' arguments in the instant response, one cannot tell from a simple reading of the claim what is being claimed. One must first conceive of the group on the starting material. Then one must, by preparing the compound himself, determine if group works or not in the process. Where is the specific claiming and distinctly pointing out? How can applicants regard as their invention inexact concepts? The breadth of which they could not have possibly checked out with representative exemplification. The terms are not finite.

Applicants are claiming a process of producing a compound of the formula. Pure chemistry, a compound. Not a resin of general property ranges, but a pure compound. That process used for

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any purpose is taken from the public in a 20-year monopoly to applicants. Then, the public is entitled to know what process they cannot use. Yet, the claim is not specific to that process. The public cannot tell what they may not use. How is a claim of the instant breadth defensible in an infringement action?

Again, claim 11 fails to clearly the process because it fails to recite the reaction conditions, *i.e.*, reagents, solvents, temperature, etc. Again, the term converting fails to describe a process.

Again, the expression "A' is a .....removing a nitrogen atom" is indefinite to its meaning. How is nitrogen-heterocycle formed when the nitrogen is removed?

Contra to applicants' allegations in the instant response, the claims measure the invention.

No support can be found for any of the limitations in newly added claims 27-59. For example claim 11 fails to recite any catalysts, temperatures, bases, etc.

The claims measure the invention. United Carbon Co. V. Binney & Smith Co., 55 USPQ 381 at 384, col. 1, end of 1st paragraph, Supreme Court of the United States (1942).

The C.C.P.A. in 1978 held "that invention is the subject matter defined by the claims submitted by the applicant. We have consistently held that no applicant should have limitations of the specification read into a claim where no express statement of the limitation is included in the claim": In re Priest, 199 USPQ 11, at 15.

#### Conclusion

No claim is allowed.

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Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Patricia L. Morris whose telephone number is (571) 272-0688. The examiner can normally be reached on Mondays through Fridays.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated

information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Patricia L. Morris/

Primary Examiner, Art Unit 1625

plm

February 19, 2008

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